



Creative Materials, Inc.
12 Willow Road
Ayer, MA 01432

T 978.391.4700
F 978.391.4705

125-18C**ELECTRICALLY CONDUCTIVE EPOXY ADHESIVE**

DESCRIPTION: 125-18C is a one part, heat cured, flexible, silver-filled epoxy adhesive. System is designed to be used for making electrical and mechanical attachments on electrical components and devices. Unlike typical heat curing systems, this product always results in excellent conductivity and is less sensitive to handling and ambient conditions. 125-18 is a higher bond strength version of 118-15A/B.

TYPICAL PROPERTIES:

Property	Value	Units
Viscosity	Smooth Paste	-
Volume Resistivity		
- Cured 15 min @120°C	0.001	Ω-cm
- Cured 1 hour @ 150°C	0.0005	Ω-cm
Thermal Conductivity	6.5	W/mK
Glass Transition Temperature (Tg)	117	°C
Coefficient of Thermal Expansion - Below Tg	45 x 10 ⁻⁶	in/in/°C
- Above Tg	105 x 10 ⁻⁶	in/in/°C
Tensile Shear Strength, min.	2000	psi
Solvent Resistance	Excellent	-
Specific Gravity	2.6	g/cc
Useful Temperature Range	-55 to 200	°C
Thermal Stability	Good to 300	°C

SUGGESTED HANDLING AND CURING INSTRUCTIONS: Material is ready to use as received. Remove product from freezer and allow material to warm to room temperature before opening container. Best results are obtained when product is cured at one of the following schedules:

90 mins @ 80°C or
15 mins @ 120°C or
5 mins @ 150°C or
45 secs @ 175°C

STORAGE: Shelf life: < 4 days at 25°C; or 6 months at -40°C.

SAFETY & HANDLING: Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.

All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either implied or expressed with respect to results or possible infringements on patents.

REVISION DATE: 5/27/10 REVISION: A